WHAT IS CLAIMED IS:

1. A process of imparting corrosion resistance to a substrate for use in a marine environment by coating said substrate with a polyurethaneurea, said process comprising:

mixing

a) an A-side of a polyurethaneurea coating comprising an isocyanate-terminated prepolymer prepared by reacting an excess of a diisocyanate with at least one hydrophobic polyoxyalkylene diol having a molecular weight of from 400 Da to 4000 Da;

with

b) a B-side containing a diamine and a hydrophobic polyoxyalkylene diol having a molecular weight determined by its hydroxyl number of from 200 Da to 4000 Da, in a weight ratio of diamine to hydrophobic polyoxyalkylene diol of from 1:10 to 10:1;

to form a curable polyurethaneurea mixture having an NCO/OH ratio of from 0.85 to 1.15;

c) spraying said curable mixture onto said substrate, and curing said mixture to form a polyurethaneurea coating on said substrate.

2. The process of claim 1, wherein at least one hydrophobic polyoxyalkylene diol is selected from the group consisting of polytetramethylene ether glycols and low unsaturation polyoxypropylene diols.

3. The process of claim 1, wherein the ratio of diamine to hydrophobic polyoxyalkylene diol in said B-side is from 3:1 to 1:3.

4. The process of claim 1, wherein said A-side polyoxyalkylene diol comprises at least one polytetramethylene ether glycol having a molecular weight between 500 Da and 1000 Da and a further polyoxyalkylene diol such that a diol component having a bimodal molecular weight distribution is reacted with said diisocyanate.

5. The process of claim 1, wherein said diisocyanate is toluene diisocyanate.

6. The process of claim 1, wherein said diamine comprises diethyltoluene diamine.

7. The process of claim 1, wherein said A-side and said B-side have viscosities of 500 cp or less at 160° F.

8. The process of claim 1, wherein said substrate comprises brass, bronze, bright metal, zinc, magnesium, aluminum, non-stainless steel, or stainless steel.

9. The process of claim 1, wherein said substrate comprises non-stainless steel, magnesium, or aluminum.

10. The process of claim 1, wherein said substrate comprises a fiber-reinforced polymer.

11. The process of claim 1, wherein said substrate comprises both a metal and a fiber-reinforced polymer.

12. The process of claim 1, wherein said substrate is first coated with a primer coating prior to coating with said polyurethaneurea.

13. A marine component for mounting on a water vessel, comprising a substrate coated by the process of claim 1.

14. The component of claim 13, wherein said component comprises aluminum, non-stainless steel, or a mixture thereof.

15. A marine component for mounting on a water vessel, comprising a substrate coated by the process of claim 2.

16. A marine component for mounting on a water vessel, comprising a substrate coated by the process of claim 3.

17. A marine component for mounting on a water vessel, comprising a substrate coated by the process of claim 4.

18. The component of claim 13 which is a radar arch, fishing platform, bow rail, or rub rail.

19. The component of claim 13 comprising a substrate comprising a metal frame and a thin plastic or fiber-reinforced polymer sheet overlying said frame, and a coating of form 100 to 500 mil of polyurethaneurea applied over said substrate.

20. The component of claim 19, wherein said polyurethaneurea coating is effective to increase the rigidity of the substrate.